APPENDIX (MARKED-UP VERSION OF AMENDED CLAIMS)

1. (Amended) A monitor for discharging fluids [in substantially any direction in substantially a hemisphere] from a fixed mount, comprising:

a) a fluid conduit having a base section including a first axis, a midsection, and an exit section;

b) a first joint between said base section and said midsection having a swivelable portion arranged to allow said midsection to swivel about said first axis; and

c) a second joint between said midsection and said exit section having a swivelable portion arranged to allow said exit section to swivel about a second axis positioned at [an] a first acute angle to said first axis;

d) said exit section [having a nozzle] including a third axis, said third axis being positioned at [an] a second acute angle to said second axis;

e) wherein the swivelable portion of each of said joints is a driveable mechanism, and each of said joints are driveable in such a manner that rotation of one of said joints is accompanied by a compensating rotation of the other of said joints to counter the component of change in position normal to said other of said joints created by rotation of said one of said joints.

4. (Amended) The monitor of Claim 1, in which [the swivelable portion of each of said joints is] said driveable mechanism comprises a driven gear, and said monitor further comprises a drive with a substantially smaller drive gear, said drive gear directly drivingly engaging said driven gear.

7. (Amended) [The monitor of Claim 1, in which] A monitor for discharging fluids from a fixed mount, comprising:

a) a fluid conduit having a base section including a first axis, a midsection, and an exit section;

b) a first joint between said base section and said midsection arranged to allow said midsection to swivel about said first axis; and

c) a second joint between said midsection and said exit section arranged to allow said exit section to swivel about a second axis positioned at a first acute angle to said first axis;

d) said exit section having a nozzle including a third axis, said third axis being positioned at a second acute angle to said second axis;

wherein the swivelable portion of each of said joints is swiveled by a servomotor.

9. (Amended) [The monitor of Claim 1 in which,] A monitor for discharging fluids from a fixed mount, comprising:

a) a fluid conduit having a base section including a first axis, a midsection, and an exit section;

b) a first joint between said base section and said midsection arranged to allow said midsection to swivel about said first axis; and

c) a second joint between said midsection and said exit section arranged to allow said exit section to swivel about a second axis positioned at a first acute angle to said first axis;

d) said exit section having a nozzle including a third axis, said third axis being positioned at a second acute angle to said second axis;

wherein when said monitor is vertically mounted, said third axis is maintained in a vertical plane during movement from a horizontal to a vertical position by swiveling said joints in accordance with the formulae

$$T = \arccos \{(1/\sin^2 M)*(\cos^2 M - \sin E)\}$$

$$B = \arctan \{\sin T/[\cos M*(1+\cos T)]\}$$

wherein E is the elevation angle of said third axis above the horizontal; M is the inclination of said second axis with respect to said first axis; T is the rotation angle of said second joint required to obtain the elevation angle E; and B is the rotation angle of said first joint required to maintain said third axis in a vertical plane.

10. (Amended) [The monitor of Claim 1, further comprising:] A monitor for discharging fluids from a fixed mount, comprising:

a) a fluid conduit having a base section including a first axis, a midsection, and an exit section;

b) a first joint between said base section and said midsection arranged to allow said midsection to swivel about said first axis; and

c) a second joint between said midsection and said exit section arranged to allow said exit section to swivel about a second axis positioned at a first acute angle to said first axis;

d) said exit section having a nozzle including a third axis, said third axis being positioned at a second acute angle to said second axis; and

e) an automatic control including a programmed computing means, said computing means being programmed to compute the amount of swiveling rotation of said second joint to obtain a desired elevation angle of said third axis, and the compensatory amount of swiveling rotation of said first joint to maintain said third axis in a constant plane.